Attorney Docket No.: P14507D Express Mail Label No.: EL 963891382 US

WHAT IS CLAIMED IS:

1	1. A circuit, comprising:
2	a processor voltage input line to receive a processor voltage signal;
3	a reference voltage output line to provide a reference voltage signal associated
4	with a determination of when the processor voltage signal exceeds a threshold value; and
5	a curve shaping circuit to generate the reference voltage signal such that the
5	reference voltage signal initially increases with increases in the processor voltage signal
7	and then decreases with a further increase in the processor voltage signal.
1	2. The circuit of claim 1, wherein the threshold value is associated with an
2	acceptable voltage level for a processor.
1	3. The circuit of claim 1, wherein the reference voltage signal decreases
2	substantially with a further increase in the processor voltage signal.
1	4. The circuit of claim 1, wherein the reference voltage signal follows the
2	processor voltage signal up to a level associated with a transistor voltage threshold.
1	5. The circuit of claim 1, wherein the reference voltage is clamped to a diode
2	voltage threshold.
1	6. The circuit of claim 1, further comprising:
2	a reference voltage output line to provide the reference voltage signal.

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1 7. The circuit of claim 1, further comprising: 2 a power indication circuit, comprising: 3 a processor voltage input line to receive the processor voltage signal, 4 a reference voltage input line to receive the reference voltage signal, and 5 a comparator circuit to generate a power indication signal based on the 6 processor voltage signal and the reference voltage signal. 1 8. The circuit of claim 7, further comprising: 2 a scaling circuit to generate a scaled processor voltage signal, wherein the 3 comparator circuit is to generate the power indication when the scaled processor voltage 4 signal exceeds the reference voltage signal. 1 9. The circuit of claim 8, wherein the scaling circuit comprises a variable 2 resistance divider to substantially scale down the processor voltage signal. 1 10. The circuit of claim 9, wherein the reference voltage signal and the scaled 2 processor voltage signal substantially reduces a temperature sensitivity of the power 3 indication signal. 1 11. The circuit of claim 9, wherein the reference voltage signal and the scaled 2 processor voltage signal substantially reduces a noise sensitivity of the power indication 3 signal. 1 12. The circuit of claim 7, wherein the power indication circuit further comprises: 2 a power indication output line to provide the power indication signal.

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1 13. A circuit, comprising: 2 a processor voltage input line to receive a processor voltage signal; 3 a reference voltage output line to provide a reference voltage signal associated 4 with a determination of when the processor voltage signal exceeds a threshold value; and 5 a curve shaping circuit to generate the reference voltage signal such that the 6 reference voltage signal will exceed a scaled threshold value before stabilizing at the 7 scaled threshold value. 1 14. The circuit of claim 13, wherein the threshold value is associated with an 2 acceptable voltage level for a processor. 1 15. A circuit, comprising: 2 a processor voltage input line to receive a processor voltage signal; 3 a variable resistance divider to substantially scale down the processor voltage 4 signal to generate a scaled processor voltage signal; 5 a reference voltage input line to receive a reference voltage signal; 6 a comparator circuit to generate a power indication signal when the scaled 7 processor voltage signal exceeds the reference voltage signal. 1 16. The circuit of claim 15, wherein the reference voltage signal initially increases with increases in the processor voltage signal and then decreases with a further 2 3 increase in the processor voltage signal

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1	17. A processor, comprising:
2	a reference voltage circuit, comprising:
3	a processor voltage input line to receive a processor voltage signal,
4	a reference voltage output line to provide a reference voltage signal, and
5	a curve shaping circuit to generate the reference voltage signal such that
6	the reference voltage signal initially increases with increases in the processor
7	voltage signal and then decreases with a further increase in the processor voltage
8	signal; and
9	a power indication circuit, comprising:
10	a processor voltage input line to receive the processor voltage signal,
11	a scaling circuit to generate a scaled processor voltage signal,
12	a reference voltage input line coupled to reference voltage output line of
13	the reference voltage circuit, and
14	a comparator circuit to generate a power indication signal when the scaled
15	processor voltage signal exceeds the reference voltage signal.
1	18. The processor of claim 17, wherein the power indication signal is associated
2	with an acceptable voltage level for the processor.
1	19. A method, comprising:
2	generating a reference voltage signal such that the reference voltage signal
3	initially increases with increases in a processor voltage signal and then decreases with a
4	further increase in the processor voltage signal;
5	generating a scaled processor voltage signal based on the processor voltage
6	signal; and

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generating a power indication signal when the scaled processor voltage signal exceeds the reference voltage signal.

1 20. The method of claim 19, wherein the power indication signal is associated

2 with an acceptable voltage level for a processor.